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Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 13

Complete if Known

Application Number	10/651,403
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1648
Examiner Name	Sharon L. Hurt
Attorney Docket Number	16051-4US-CC

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
SH		US-5,583,050	10-28-1996	Keyman et al.	
SH		US-6,508,559	1-14-2003	Fire et al.	
SH		US-5,023,252	6-11-1991	Hsieh	
SH		US-5,580,859	12-03-1996	Felgner et al.	
SH		US-4,806,463	2-21-1989	Goodchild et al.	
SH		US-5,248,670	9-28-1993	Draper et al.	
SH		US-5,591,720	1-07-1997	Anderson et al.	
SH		US-5,952,490	9-14-1999	Hanecak et al.	
SH		US-5,998,602	12-07-1999	Torrence et al.	
SH		US-6,184,369	2-6-2001	Rando et al.	
SH		US-5,264,423	11-23-1993	Cohen et al.	
SH		US-5,278,019	1-4-1994	Cohen et al.	
SH		US-6,316,190	11-15-2001	Rein et al.	
SH		US-5,218,103	6-8-1993	Caruthers et al.	
SH		US-5,684,148	11-4-1997	Caruthers et al.	
SH		US-5,452,496	9-26-1995	Long et al.	
SH		US-5,278,302	1-11-1994	Caruthers et al.	
SH		US-5,750,666	5-12-1998	Caruthers et al.	
SH		US-5,602,244	2-14-1997	Caruthers et al.	
SH		US-5,508,270	4-16-1996	Baxter et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	1 ³
		Country Code ⁴ - Number ⁵ - Kind Code ⁵ (if known)				
SH		WO 03/02903	1/2003			
SH		WO 99/32619	1/1999			
SH		WO 01/75164	10/2001			
SH		WO 92/03051	3/1992			
SH		WO 94/17093	8/1994			
SH		WO 94/02489	2/1994			
SH		WO 94/26764	1/1994			
SH		WO 97/13499	4/1997			

Examiner Signature	Sharon Hurt	Date Considered	Dec. 6, 2006
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Substitute for form 1449PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
				Application Number	10/661,403
				Filing Date	September 12, 2003
				First Named Inventor	Andrew Valliant et al.
				Art Unit	1648
				Examiner Name	Sharon L. Hurt
				Attorney Docket Number	16051-4US CC
Sheet	2	of	13		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	
		Number - Kind Code ² (if known)				
SH		US-4,469,863	9-9-1984	Ts'o et al.		
SH		US-5,610,289	3-11-1997	Cook et al.		
SH		US-5,256,775	10-26-1993	Froehler		
SH		US-5,366,878	11-23-1994	Pederson et al.		
SH		US-5,476,925	12-14-1995	Letsinger et al.		
SH		US-5,023,243	6-11-1991	Tullis		
SH		US-5,130,302	7-14-1992	Spielvogel et al.		
SH		US-5,177,188	1-5-1993	Spielvogel et al.		
SH		US-5,378,825	1-3-1995	Cook et al.		
SH		US-5,386,023	1-31-1995	Sanghvi et al.		
SH		US-5,489,877	2-6-1996	Sanghvi et al.		
SH		US-5,264,562	11-23-1993	Matteucci		
SH		US-5,264,564	11-23-1993	Matteucci		
SH		US-5,223,618	6-29-1993	Cook et al.		
SH		US-5,770,713	6-23-1998	Imbach et al.		
SH		US-5,543,152	8-6-1996	Webb et al.		
SH		US-4,426,330	1-17-1984	Sears		
SH		US-4,534,899	8-13-1985	Sears		
SH		US-5,705,188	1-6-1998	Vunichy et al.		
SH		US-5,013,556	5-7-1991	Woodle et al.		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant Of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	1*
		Country Code 3 - Number 4 - Kind Code 5 (if known)				
SH		WO 90/04384	5/1990			
SH		WO 97/30731	8/1997			
SH		EP 0 496 813 B1	2-5-1991			
SH		EP 0 445 131 B1	3-5-1990			
SH		WO 91/05545	5/1991			
SH		WO 94/20073	9/1994			
SH		WO 96/10391	1/1996			
SH		WO 98/39352	6/1998			

Examiner Signature	Sharon L. Hurt	Date Considered	Dec 6, 2006
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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			Filing Date	September 12, 2003	
			First Named Inventor	Andrew Vaillant et al.	
			Art Unit	1648	
			Examiner Name	Sharon L. Hurt	
Sheet	3	of	13	Attorney Docket Number	16051-4US CC

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ¹ (if known)				
Sh		US-5,356,633		10-18-1994	Woodle et al.	
Sh		US-5,213,804		5-25-1993	Martin et al.	
Sh		US-5,225,212		7-6-1993	Martin et al.	
Sh		US-5,540,935		7-30-1996	Miyazaki et al.	
Sh		US-5,556,948		9-19-1996	Tagawa et al.	
Sh		US-6,316,190		11-13-2001	Rein et al.	
Sh		US-5,284,221		11-23-1993	Tagawa et al.	
Sh		US-5,665,710		9-9-1997	Rafman et al.	
Sh		US-4,806,463		2-21-1989	Goodchild et al.	
Sh		US-5,248,670		9-28-1993	Draper et al.	
Sh		US-5,695,979		12-9-1997	Caruthers et al.	
Sh		US-5,591,623		1-7-1997	Bennett et al.	
Sh		US-5,514,788		5-7-1996	Bennett et al.	
Sh		US-5,652,355		7-29-1997	Metelev et al.	
Sh		US-6,143,881		11-7-2000	Metelev et al.	
Sh		US-6,346,614		2-12-2002	Metelev et al.	
Sh		US-5,591,721		1-7-1997	Agrawal et al.	
Sh		US-6,608,035		8-19-2003	Agrawal et al.	
Sh		US-3,687,808		8-29-1972	Merigan, Jr. et al.	
Sh		US-5,625,050		4-29-1997	Reaton et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant Of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	
		Country Code3 - Number4 - Kind Code5 (if known)*				
SH		WO 99/14226	3/1999			
SH		WO 96/40062	12/1996			
SH		WO 97/04787	2/1997			
SH		WO 04/02419	1/2004			

Examiner Signature	Sharon Hurt	Date Considered	Dec 6, 2006
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				Art Unit	1648
				Examiner Name	Sharon L. Hurt
				Attorney Docket Number	16051-4US CC
Sheet	4	of	13		

[illegible][illegible]

Examiner Signature	<i>Sharon Hunt</i>	Date Considered	<i>Dec 6, 2006</i>
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This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

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